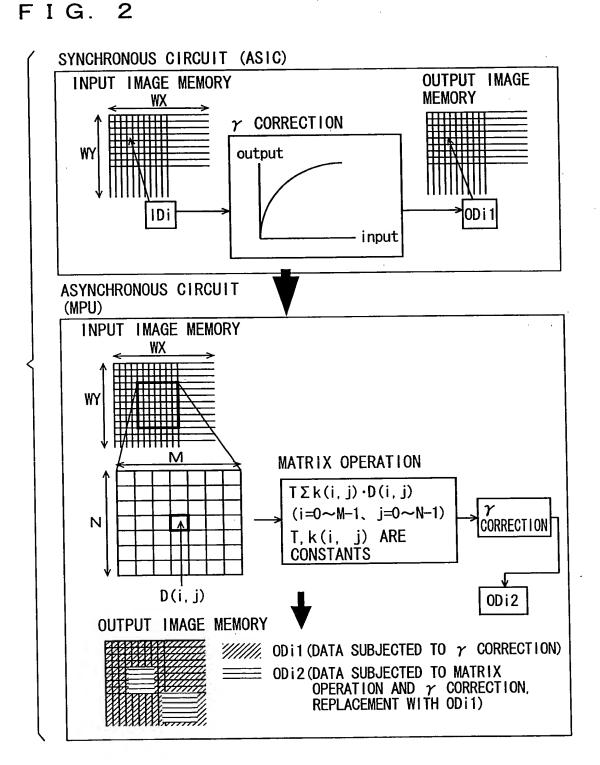
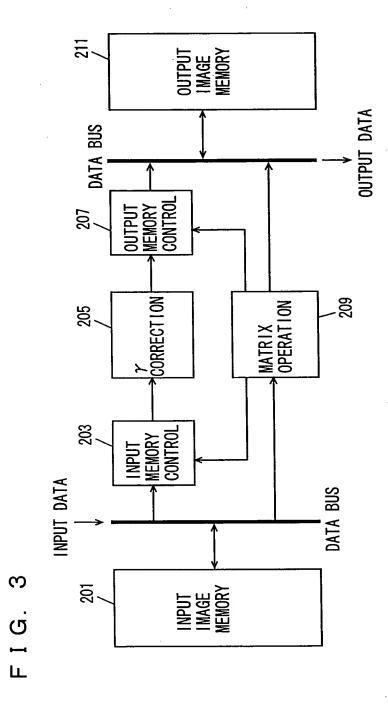
SYNCHRONOUS TYPE PROCESS (HIGH SPEED PROCESS) ASYNCHRONOUS TYPE PROCESS (REGION PROCESS) REGION REQUIRING MATRIX OPERATION (EXAMPLE, TEXT) 100b ENTIRE REGION 100a 100b DOCUMENT 100a-F I G.

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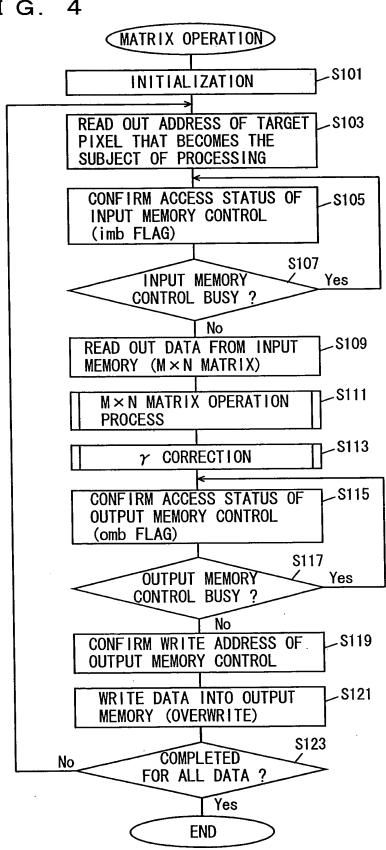
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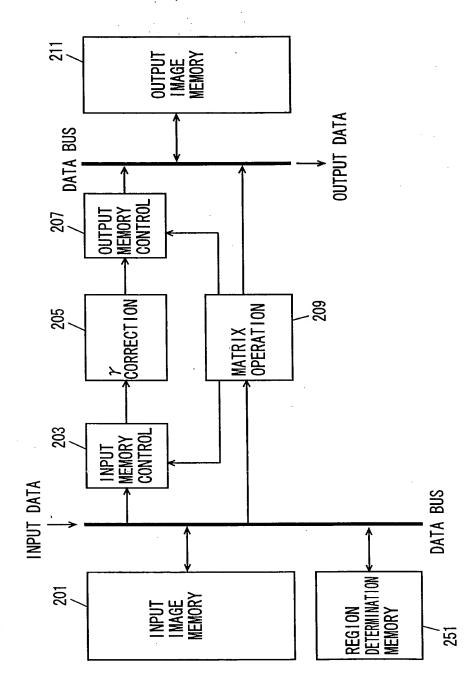
FIG. 5 MATRIX OPERATION -S201 INITIALIZATION S203 INPUT No MEMORY CAN BE ACCESSED ? Yes S205 EXTRACT MATRIX OF 5×5 PIXELS S207 DETERMINATION No OF ISOLATED POINT ? Yes EXTRACT MATRIX OF S209 9×41 PIXELS S223 S211 DETERMINATION No DETERMINATION No OF EDGE ? OF HALFTONE DOT ? Yes **S225 S213** Yes **EDGE ENHANCEMENT** SMOOTHING PROCESS _S215 γ CORRECTION S217 OUTPUT No MEMORY CAN BE ACCESSED ? Yes WRITE DATA INTO -S219 **OUTPUT MEMORY S221** COMPLETED No FOR ALL DATA Yes

END

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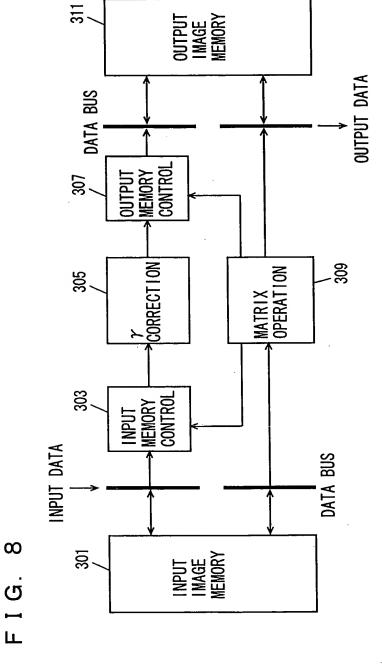
F I G. 6



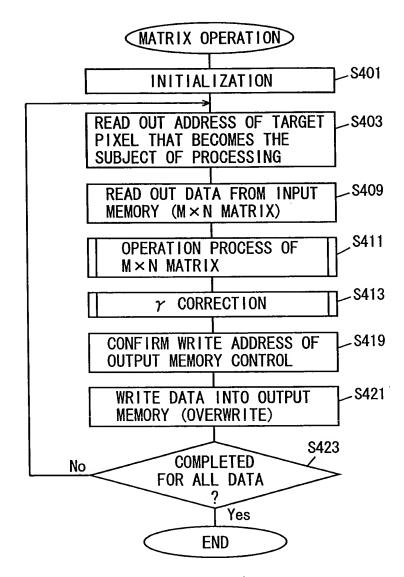


F I G. 7 MATRIX OPERATION _S301 INITIALIZATION **S303** EXTRACT ADDRESS OF TARGET PIXEL (CONFIRM TARGET PIXEL THAT IS TO BE SUBJECTED TO MATRIX OPERATION) **S305** EDGE · No OR HALFTONE DOT ? Yes **S307** INPUT No MEMORY CAN BE ACCESSED Yes DATA READ OUT OF _S309 MATRIX OF 5×5 PIXELS S311 S321 **EDGE** HALFTONE DOT **EDGE ENHANCEMENT SMOOTHING PROCESS PROCESS** -S313 γ CORRECTION S315 OUTPUT No MEMORY CAN BE ACCESSED ? Yes WRITE DATA INTO _S317 **OUTPUT MEMORY** S319 COMPLETED No FOR ALL DATA Yes **END**

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FIG. 10

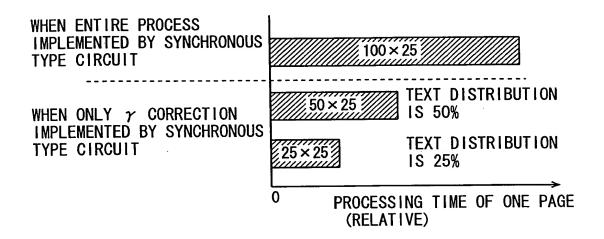
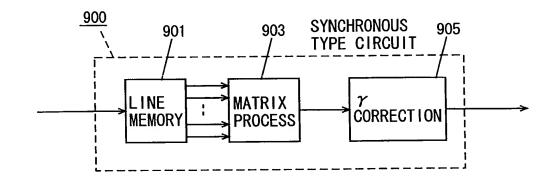


FIG. 11



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